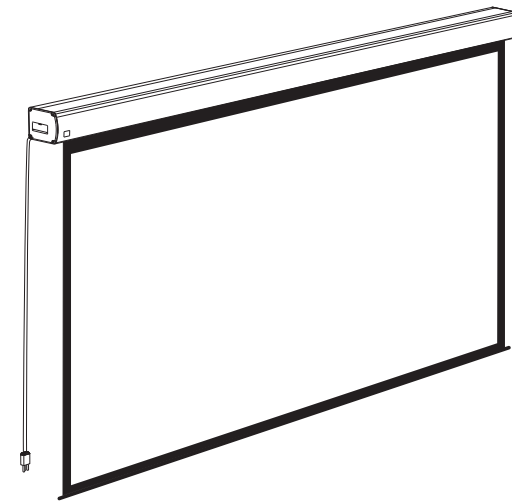




Instruction Manual for Command and Control Electric Screen

(ATR)



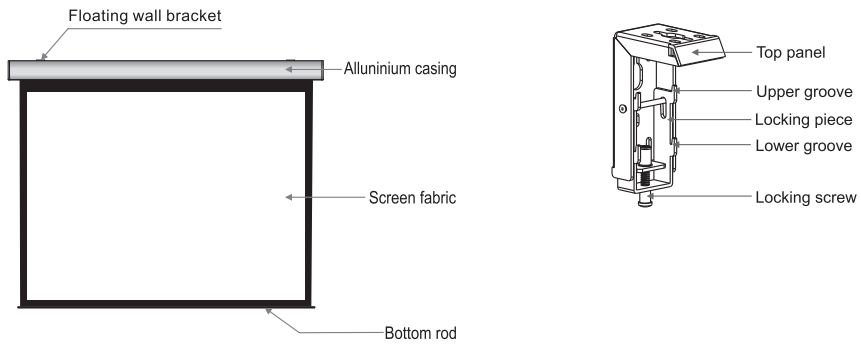
Technical Assistance

If you need help with installing this screen please visit
www.sapphireav.com



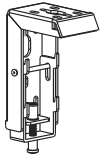
Thank you for purchasing a sapphire projection screen.
Before use, please read instructions carefully. After installation, store instructions for future reference.

Description



Accessories

- Floating wall bracket (2pcs)



- $\phi 5 \times 40$ mm Tapping screw & cap (8sets)



- Ceiling hanger (2pcs)



- M5x10 Screw (6pcs)



- Trigger line (1pc)



- External IR Receiver (1pc)



- Allen key (1pc)









- Instruction manual (1pc)

Motorized Screen Power Specifications

Voltage	Frequency	Watts	Application
230V/120V/100V	50Hz/60Hz	90W/80W	Applies up to 120" motorized screens

Warnings

- The ceiling or wall used for fixture installation must be secure to prevent the screens from falling.
- While installing electrical motors, please hire professionals or your local dealer to ensure safety. A misconnection may lead to fire or leaks.
- Make sure the Fixing screw be fastened when using the wall bracket, to avoid any damage.
- Keep all infrared wireless products away from fluorescent lighting as it may cause malfunctions.
- Please read the following as any damage to the screen surface will affect the quality of the picture:
 1. Avoid contact or touching the screen surface as it may cause scratches or tears.
 2. Do not write or draw on the surface.
 3. Clean the screen with a soft cloth and lukewarm water. Do not use any detergent or cleaning products.
- Roll up the screen after every use. Ensure that the screen is level when installing; do not pull on the sides or fold the screen.
- To prevent unnecessary damage, the operating and maintenance of the screen should be done by adults.

 Ignoring the safety warnings may lead to injuries and/or damaging the product.	 Fixtures should be installed in a secure place to avoid accidents or the screen falling.
 Do not connect any electrical attachments or remote controls.	 Roll up the screen after every use. Leaving it hanging for a long period of time may cause the fabric to loosen.
 Please contact your local dealer for repairs or maintenance. Please contact our company if you have any further questions. Avoid taking apart the fixtures yourself. Loose parts may cause the screen to fall.	 Refrain from hanging anything on the screen as it may cause the screen to fall.

Do not take apart and replace with unknown parts. If there are any problems, please contact your local dealer. Product specifications are subject to change.

Installation

Take out all the parts from the packaging and follow the accessories guideline to ensure you have all parts.

There are three installation measures for this product, namely wall mounting, ceiling mounting and ceiling hang. The installed distance can be changeable up to your needs via adjusting the slipper block, while the ideal position is the mounting bracket is at its nearest point to the endcap, which can reduce unnecessary vibration or noise.

Floating wall bracket installation

1. Choose screws for mounting according to wall material. (Tips: Wood screws for wood wall, and Tapping screws for concrete wall.)
2. Mount the brackets onto the wall, assuring they are at the horizontal level. (Tips: draw an erasable level line when mounting the brackets) (Figure 1) Here below are the details:

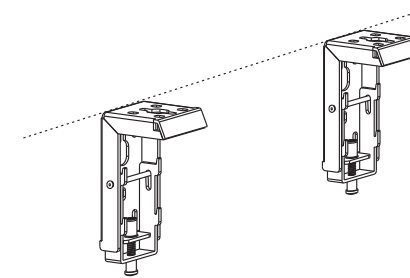


Figure 1

Installation Steps

- a) Wood wall and ceiling installation: Drill in the $\phi 5 \times 40$ screws through the appropriate holes in the bracket (Figure 2-3).
- b) Drywall and ceiling and installation: Install the anchors and drill in the $\phi 5 \times 40$ screws into the appropriate bracket holes. (Figure 4-5).

Wood wall installation

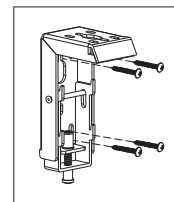


Figure 2

Wood ceiling installation

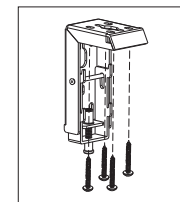


Figure 3

Concrete wall installation

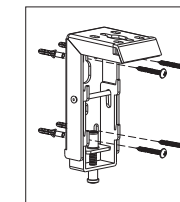


Figure 4

Concrete ceiling installation

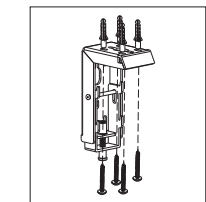
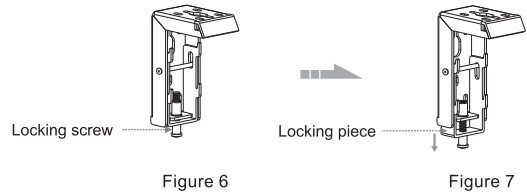
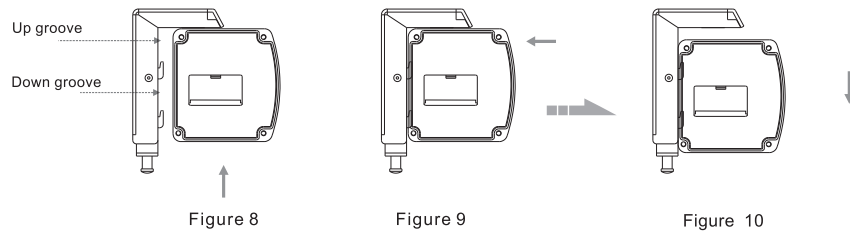


Figure 5

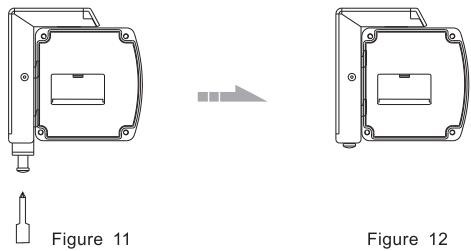
3. Loosen the locking screw to lower the locking piece down all the way (figure 6-7)



4. When mounting the screen onto the floating mounting brackets, ensure the grooves on the screen casing match up with the upper and lower grooves on the brackets. Simply slide in, and bracket's grooves will hold the casing in place. Horizontal adjustments can still be made (figure 8-10).



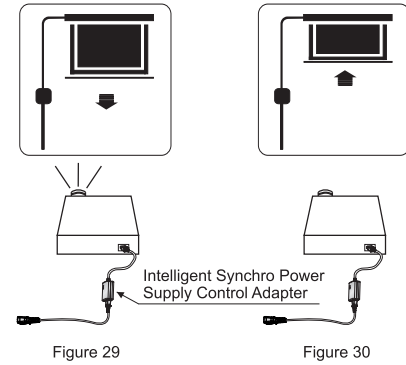
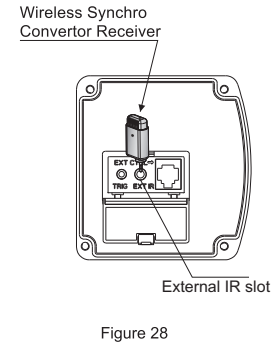
5. To lock the screen in place, close and tighten the locking screw on the mounting brackets. This will keep the screen casing locked firmly in place (figure 11-12).



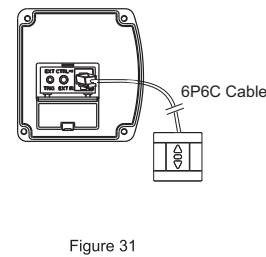
Other Options Connection Diagram

1. Function Description for conversion from FM to IR Control

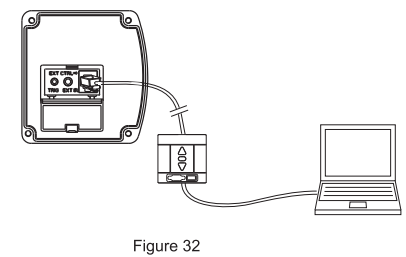
When you insert the Wireless Synchro Converter Receiver into EXTIR plug of the screen (Figure 28), you can use FM wireless remote control device. The Intelligent Synchro Power Supply Control Adapter (for all projectors), with 12V wireless trigger (for projectors with trigger output), can synchronously control the screen. (Figure 29-30)



2. External Wall Switch



3. External Intelligent Wall Switch Connection



Manual control for screen up/stop/down.

Intelligent control for screen up/stop/down when connected to the intelligent interface of the screen. Intelligent control for screen up/stop/down when connected to the computer's RS232 or USB interface.

Automatic Trigger Control Description

1. Insert one end of trigger into the trigger jack at left side of screen's end cap TRIG (Figure 22), and insert another end into 12V output hole.
2. When the projector is running, screen fabric will go down automatically; when the projector is closed, screen fabric will retreat automatically.
3. You can remove the 12V trigger wire if there is no need.

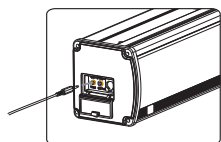


Figure 39

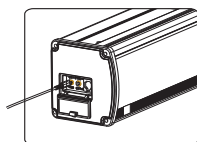


Figure 40

External Controls (Central Control or RS232, Grandview Wall Switch) Function

Plug one side of the signal cord into the computer output jack at left side of the screen's end cap, the other side of the signal cord to the Central Control jack, RS232 or Grandview Wall Switch (Figure 41-42), and then you can control the up/stop/down of the screen via central control or computer.

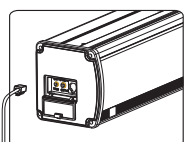


Figure 41

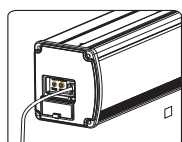


Figure 42



RS232 interface settings :

bps : 2400
 data bit : 8
 parity check : no
 stop bit : 1
 control code :

Function	Hexadecimal System	decimal System
Directive for retracting	FF EE EE EE DD	1099225296605
Directive for stopping	FF EE EE EE CC	1099225296588
Directive for extending	FF EE EE EE EE	1099225296605

IR Remote Control Function

1. When nothing blocks the sight of IR window, you can use the controller to control the screen (Figure 43).
2. For hidden installation or IR window is blocked by something, please take out the External IR Receiver and plug its head to the relevant hole, and then fix it at the position where IR signal is available. (Figure 44)

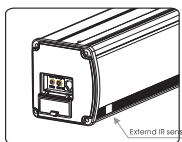


Figure 43

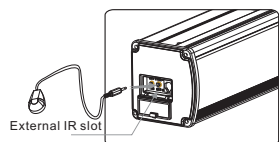


Figure 44

Ceiling Hang Installation

Choose tapping screws with hangers (or other screws with hangers, not provided) according to your ceiling material. 5 x 40mm for wood ceilings and tapping screws for concrete ceilings are recommended.

1. Drill two identical holes with an electrical drill and ensure it is horizontal with the Wall. Fasten hangers (not provided) into the ceiling (figure 13).

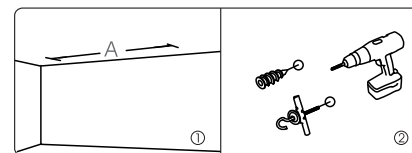


Figure 13

2. Use the M5 x 10 screws provided in the accessory package to fix the ceiling hanger into the wall bracket. Ensure the tightening screws on the wall bracket are tightened and secure. (figure 14-15)

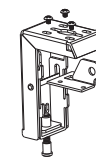


Figure 14

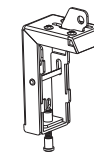


Figure 15

3. After inserting the ceiling hanger, ensure the grooves on the case housing match up with the mounting bracket. To secure the case housing into the brackets, tighten the locking screws. (figure 16-17)

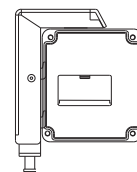


Figure 16

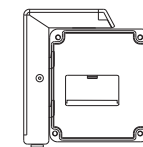


Figure 17

4. After completing steps 2 and 3, check to see whether the wall bracket is securely fixed onto the housing of the screen before hanging. Hang screen as shown below. (figure 18)

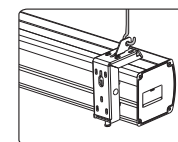
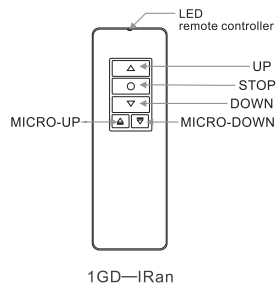


Figure 18

Instructions

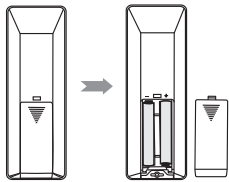


Controller button instruction

- 1.To raise screen press "UP".
- 2.To hold screen at desired position press "STOP".
- 3.To lower screen press "DOWN".
4. To raise the screen little at your desired position press "MICRO-UP"
5. To lower the screen little at your desired position press "MICRO-DOWN"

Caution:

- 1.The shortest distance between receiver and controller is 0.5 meter.
- 2.Controller will work within 30 degree away horizontally from the center of receiver point within 8 meters from the screen.
- 3.The controller will not work if the signal was covered by something.
- 4.Keep the controller far away from high temperature and humid situation.
- 5.Please change the battery when the signal is weak.
- 6.Please take the battery out if the controller was not being used for long time.
- 7.Please choose the same type battery as original supplied.



How to install the battery:

- 1.Turn the controller around, push to open the cover as guide arrow.
- 2.Put the battery in according the guide of cathode and anode.
- 3.Close the cover.

Operating Instructions

Function Description

Press down and open the end cap door before using the control interface. Cover up the door if you do not need the external function.

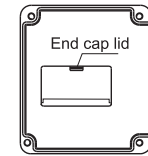


Figure 18

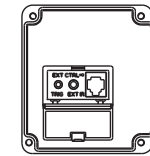


Figure 19

How to use the Manual/Remote Control Switch Button (Figure 20-21)

This motorized screen has 4 types on control options: infrared (IR) remote control, manual control, triggered control, and external control (central control or RS232/USB).

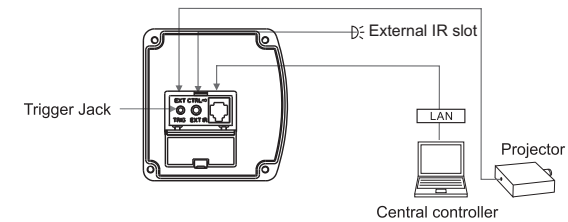


Figure 20

Manual control switch description

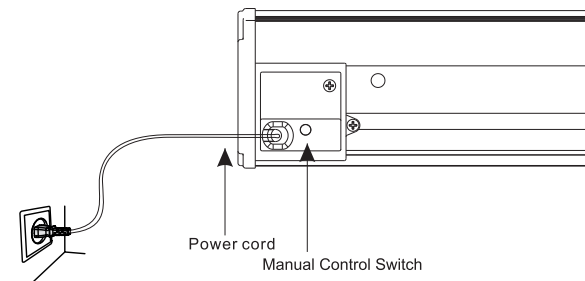


Figure 21

Switch control follows such priority: Down-Stop-Up-Stop-Down.